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Brandstötter, M.; Knoth, R.; Kopacek, B.; Kopacek, P.;
Electronics Packaging Manufacturing, IEEE Transactions on [see also Components and Packaging and Manufacturing Technology, Part C: Manufacturing, IEEE Transactions on], Volume: 27, Issue: 1, Jan. 2004
Pages:26 - 32

[\[Abstract\]](#) [\[PDF Full-Text \(520 KB\)\]](#) IEEE JNL**2 Incorporating component reuse, remanufacture, and recycle into product portfolio design**

Mangun, D.; Thurston, D.L.;
Engineering Management, IEEE Transactions on, Volume: 49, Issue: 4, Nov. 2002
Pages:479 - 490

[\[Abstract\]](#) [\[PDF Full-Text \(923 KB\)\]](#) IEEE JNL**3 E-business models for reverse logistics: contributions and challenges**

Kokkinaki, A.I.; Dekker, R.; de Koster, M.B.M.; Pappis, C.; Verbeke, W.;
Information Technology: Coding and Computing, 2002. Proceedings. International Conference on, 8-10 April 2002
Pages:470 - 476

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) IEEE CNF**4 The new evaluation method of eco products using the eco-efficiency index (Factor X) by consideration of MET***Takahashi, T.; Ueno, K.;***BEST AVAILABLE COPY**

Environmentally Conscious Design and Inverse Manufacturing, 2003. EcoDesign '03. 2003 3rd International Symposium on , 8-11 Dec. 2003
Pages:747 - 753

[Abstract] [PDF Full-Text (471 KB)] IEEE CNF

5 Sustainability and end-of-life product management: a case study of electronics collection scenarios

Caudill, R.J.; Dickinson, D.A.;
Electronics and the Environment, 2004. Conference Record. 2004 IEEE International Symposium on , 10-13 May 2004
Pages:132 - 137

[Abstract] [PDF Full-Text (1462 KB)] IEEE CNF

6 Composition and value of returned consumer and industrial information technology equipment

Grenchus, E.; Keene, R.; Nobs, C.;
Electronics and the Environment, 2000. ISEE 2000. Proceedings of the 2000 International Symposium on , 8-10 May 2000
Pages:324 - 329

[Abstract] [PDF Full-Text (388 KB)] IEEE CNF

7 A fuzzy logic-based lifecycle comparison of digital and film cameras

Yang, B.; Luo, Y.; Zhou, M.;
Electronics and the Environment, 2000. ISEE 2000. Proceedings of the 2000 International Symposium on , 8-10 May 2000
Pages:304 - 309

[Abstract] [PDF Full-Text (412 KB)] IEEE CNF

8 Environmental load of magnetic recording media: LCA case study

Tomita, H.; Satake, K.; Watanabe, H.;
Electronics and the Environment, 1997. ISEE-1997., Proceedings of the 1997 International Symposium on , 5-7 May 1997
Pages:137 - 140

[Abstract] [PDF Full-Text (344 KB)] IEEE CNF

9 A cost model for multi-lifecycle engineering design

Mengchu Zhou; Bin Zhang; Caudill, R.J.; Sebastian, D.;
Emerging Technologies and Factory Automation, 1996. EFTA '96. Proceedings. 1996 IEEE Conference on , Volume: 1 , 18-21 Nov. 1996
Pages:385 - 391 vol.1

[Abstract] [PDF Full-Text (584 KB)] IEEE CNF

10 An information system management of assessment of disassembly recycle

Meng Peng; Duan Guanghong; Xiang Dong; Liu Xueping; Wu Ying; Li Fangyi;
Electronics and the Environment, 2003. IEEE International Symposium on , 15 May 2003

Pages:286 - 290

[\[Abstract\]](#) [\[PDF Full-Text \(413 KB\)\]](#) [IEEE CNF](#)

11 Sustainable product and material end-of-life management: an approach for evaluating alternatives

Dickinson, D.A.; Caudill, R.J.;

Electronics and the Environment, 2003. IEEE International Symposium on , 15 May 2003

Pages:153 - 158

[\[Abstract\]](#) [\[PDF Full-Text \(430 KB\)\]](#) [IEEE CNF](#)

12 Auto-ID mobile information system for vehicle life cycle data management

Bajic, E.; Chaxel, F.;

Systems, Man and Cybernetics, 2002 IEEE International Conference on , Volu 4 , 6-9 Oct. 2002

Pages:6 pp. vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(630 KB\)\]](#) [IEEE CNF](#)

13 Development of advanced CRT disassembly technology

Geskin, E.S.; Goldenberg, B.; Caudill, R.;

Electronics and the Environment, 2002 IEEE International Symposium on , 6-9 2002

Pages:249 - 253

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) [IEEE CNF](#)

14 Life-cycle environmental impact of flame retarded electrical and electronic equipment

Landry, S.D.; Dawson, R.B.;

Electronics and the Environment, 2002 IEEE International Symposium on , 6-9 2002

Pages:163 - 168

[\[Abstract\]](#) [\[PDF Full-Text \(672 KB\)\]](#) [IEEE CNF](#)

15 Industrial ecology in off-site building component industry: Case study on bathroom units sectors

Yang, S.-H.; Yashiro, T.; Nishimoto, K.;

Environmentally Conscious Design and Inverse Manufacturing, 2001. Proceeding EcoDesign 2001: Second International Symposium on , 11-15 Dec. 2001

Pages:886 - 891

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Pages:739 - 744[\[Abstract\]](#) [\[PDF Full-Text \(569 KB\)\]](#) IEEE CNF**17 Applicable methods for sustainable development for small and mid-size companies***Lindemann, U.; Hessling, T.; Hutterer, P.; Mortl, M.;*Environmentally Conscious Design and Inverse Manufacturing, 2001. Proceedings of EcoDesign 2001: Second International Symposium on, 11-15 Dec. 2001
Pages:180 - 183[\[Abstract\]](#) [\[PDF Full-Text \(486 KB\)\]](#) IEEE CNF**18 System simulation and modeling of electronics demanufacturing facilities***Limaye, K.; Caudill, R.J.;*Electronics and the Environment, 1999. ISEE -1999. Proceedings of the 1999 International Symposium on, 11-13 May 1999
Pages:238 - 243[\[Abstract\]](#) [\[PDF Full-Text \(608 KB\)\]](#) IEEE CNF**19 Information technology and product lifecycle management***Thomas, V.; Neckel, W.; Wagner, S.;*

Electronics and the Environment, 1999. ISEE -1999. Proceedings of the 1999 International Symposium on, 11-13 May 1999

Pages:54 - 57

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) [IEEE CNF](#)

20 Emission Minimum Product Recycling System, EMPRES

Hara, S.; Marukawa, K.;

Environmentally Conscious Design and Inverse Manufacturing, 1999. Proceeding EcoDesign '99: First International Symposium On , 1-3 Feb. 1999

Pages:1005 - 1007

[\[Abstract\]](#) [\[PDF Full-Text \(172 KB\)\]](#) [IEEE CNF](#)

21 Design for environment-a computer-based cooperative method to consider the entire life cycle

Anderi, R.; Daum, B.; Weissmantel, H.; Wolf, B.;

Environmentally Conscious Design and Inverse Manufacturing, 1999. Proceeding EcoDesign '99: First International Symposium On , 1-3 Feb. 1999

Pages:380 - 385

[\[Abstract\]](#) [\[PDF Full-Text \(108 KB\)\]](#) [IEEE CNF](#)

22 Evaluation of environmentally conscious product designs

MengChu Zhou; Caudill, R.J.; Xin He;

Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on , Volume: 4 , 11-14 Oct. 1998

Pages:4057 - 4061 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(488 KB\)\]](#) [IEEE CNF](#)

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Pages:479 - 490

[\[Abstract\]](#) [\[PDF Full-Text \(923 KB\)\]](#) **IEEE JNL****2 Prediction of demand for landfill volume: analysis by dynamic extension of waste input-output model***Yokoyama, K.;*

Environmentally Conscious Design and Inverse Manufacturing, 2003. EcoDesign '03. 2003 3rd International Symposium on , 8-11 Dec. 2003

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Emerging Technologies and Factory Automation, 1996. EFTA '96. Proceedings

1996 IEEE Conference on , Volume: 1 , 18-21 Nov. 1996
Pages:385 - 391 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) [IEEE CNF](#)

5 Sustainable product and material end-of-life management: an approach for evaluating alternatives

Dickinson, D.A.; Caudill, R.J.;
Electronics and the Environment, 2003. IEEE International Symposium on , 19 May 2003
Pages:153 - 158

[\[Abstract\]](#) [\[PDF Full-Text \(430 KB\)\]](#) [IEEE CNF](#)

6 Development of advanced CRT disassembly technology

Geskin, E.S.; Goldenberg, B.; Caudill, R.;
Electronics and the Environment, 2002 IEEE International Symposium on , 6-9 May 2002
Pages:249 - 253

[\[Abstract\]](#) [\[PDF Full-Text \(584 KB\)\]](#) [IEEE CNF](#)

7 LocALE: a location-aware lifecycle environment for ubiquitous computing

Lopez de Ipina, D.; Lo, S.-L.;
Information Networking, 2001. Proceedings. 15th International Conference on , 1-4 Jan.-2 Feb. 2001
Pages:419 - 426

[\[Abstract\]](#) [\[PDF Full-Text \(672 KB\)\]](#) [IEEE CNF](#)

8 Multi-lifecycle product and process development: selection of optimization, production, usage, and recovery processes

Pingtao Yan; MengChu Zhou; Sebastian, D.;
Electronics and the Environment, 1999. ISEE -1999. Proceedings of the 1999 International Symposium on , 11-13 May 1999
Pages:274 - 279

[\[Abstract\]](#) [\[PDF Full-Text \(528 KB\)\]](#) [IEEE CNF](#)

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Relevance scale **1 Challenges: Challenges:: environmental design for pervasive computing systems**

Ravi Jain, John Wullert

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**Full text available:  pdf(212.37 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We argue that pervasive computing offers not only tremendous opportunities and exciting research challenges but also possible negative environmental impacts, particularly in terms of physical waste and energy consumption. These environmental impacts will come under increasing government and consumer scrutiny, and like other disciplines (e.g. architecture, transportation), pervasive computing will have to adapt accordingly. Further, we argue that software-related issues will play an increasing role ...

Keywords: environmental impacts, green computing, pervasive computing

2 Object orientation and transaction processing: where do they meet?

John Tibbetts

September 1991 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 3 Issue 4Full text available:  pdf(1.44 MB) Additional Information: [full citation](#), [index terms](#)**3 Demonstrations: An automated approach and virtual environment for generating maintenance instructions**

Russell S. Blue, Jeff Wampler, G. Bowden Wise, Louis J. Hoebel, Boris Yamrom, Christopher R. Volpe, Bruce Wilde, Pascale Rondot, Ann E. Kelly, Anne Gilman, Wesley Turner, Steve Linthicum, George Ryon

April 2002 **CHI '02 extended abstracts on Human factors in computing systems**Full text available:  pdf(194.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Maintenance of complex machinery such as aircraft engines requires reliable and accurate documentation, including illustrated parts catalogs (IPCs), exploded views, and technical manuals describing how to remove, inspect, repair and install parts. For new designs, there are often time constraints for getting a new engine to the field, and the available documentation must go with it. Authoring technical manuals is a complex process involving

technical writers, engineers, as well as domain experts ...

Keywords: XML, haptics, human-centered design, maintainability analysis, maintenance manual development, natural language, text generation, virtual environments

4 User participation in standards setting—the panacea?

Kai Jakobs, Rob Procter, Robin Williams

June 1998 **StandardView**, Volume 6 Issue 2

Full text available:  pdf(1.10 MB) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)



5 Art session 2: tools development for arts research and practice: iGlue.v3: an electronics metaphor for multimedia technologies integration

Tony Cabello-Miguel, Oscar Fernández-Barracel, Oscar García-Panyella

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available:  pdf(1.22 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The iGlue Project is a set of tools meant for the integration of different multimedia technologies in creative applications like multimedia installations or live audiovisual shows.

Inspired by the way of working used in electronics, similar concepts are developed in a visual environment to interactively build applications out of components, wires and circuits. This approach enhances the entire R&D workflow, providing for application prototyping, empirical experimentation, collaborative ...

Keywords: application modeling, collaborative work, component system, electronics UI metaphor, interactive development, multimedia technologies integration



6 OOPSLA onward! track: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

December 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 12

Full text available:  pdf(2.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse



7 Onward papers: No name: just notes on software reuse

Robert Biddle, Angela Martin, James Noble

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available:  pdf(1.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the beginning, so our myths and stories tell us, the programmer created the program from the eternal nothingness of the void. In this essay, we recognise that programs these days are like any other assemblage, and suggest that in fact programming has always been

about reuse. We also explore the nature of reuse, and claim that Components themselves are not the most important consideration for reuse; it is the end product, the composition. The issues still involve value, investment, and return. ...

Keywords: components, object-oriented programming, software reuse

8 Avoiding cultural false positives

Deborah Mrazek, Cynthia Baldaccini

July 1997 **interactions**, Volume 4 Issue 4

Full text available:  pdf(601.37 KB)

Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)



9 Coping with errors: the importance of process data in robust sociotechnical systems

Michael B. Twidale, Paul F. Marty

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Full text available:  pdf(140.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an analysis of written and electronic records that document the collaborative process of packing museum artifacts in preparation for a move. The majority of data recorded detailed the process of packing, while only a small amount of the data concerned which artifacts were packed in which boxes. Museum staff members were able to use these process data to solve the numerous errors that occurred during packing. We explore the design implications for collaborative systems wh ...

Keywords: error analysis, problem solving, process data, workflow, workplace study

10 Obituary for a Fax

H. Thimbleby, M. Jones

January 2002 **Personal and Ubiquitous Computing**, Volume 6 Issue 2

Full text available:  pdf(42.23 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The continual failure of personal technology highlights the growing problem of obsolete, irreparable and non-recyclable toxic waste. Moore's Law is a symptom of failure as much as a promise of better technology. Better design could avoid the problems.

11 Issues in user services management for the 90s

Sue F. Stager, Shadle Julie

August 1990 **Proceedings of the 18th annual ACM SIGUCCS conference on User services**

Full text available:  pdf(598.92 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

The nature of our work in the university community, the work force from which we'll draw both our part-time and professional User Services staff, and the computing center itself has undergone and will continue to undergo enormous change as we approach the year 2000. In this paper, User Services management issues for the 1990s will be discussed. Solutions are also suggested in some cases, not because of any pretence at being an authority on management, but only as a mechanism to start a dial ...

12 Finding the object (workshop session)

Mark A. Whiting, D. Michael DeVaney

October 1990 **Proceedings of the European conference on Object-oriented**

**programming addendum : systems, languages, and applications:
systems, languages, and applications**

Full text available:  [pdf\(935.57 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)



13 Open implementation analysis and design

Chris Maeda, Arthur Lee, Gail Murphy, Gregor Kiczales

May 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on Software reusability**, Volume 22 Issue 3

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: framework, metaobject protocol, open implementation, software design methodology, software reuse

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